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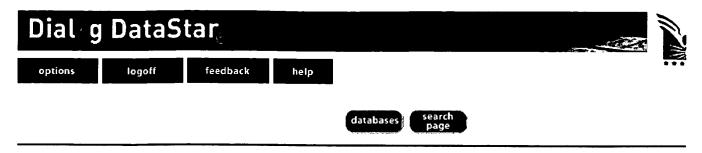
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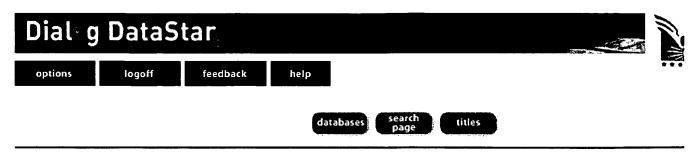
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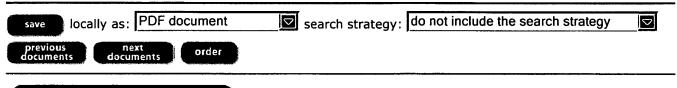


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### Accession number & update

0006048854 20051201.

### **Title**

Optimal thresholding for color images.

### **Conference information**

Nonlinear Image Processing IX, San Jose, CA, USA, 26-27 Jan. 1998.

Sponsor(s): SPIE; Soc. Imaging Sci. & Technol.

## Source

Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1998, vol. 3304, p. 250-9, 7 refs, CODEN: PSISDG, ISSN: 0277-786X. Publisher: SPIE-Int. Soc. Opt. Eng, USA.

### Author(s)

Celenk-M, Uijt-de-Haag-M.

### **Author affiliation**

Celenk, M., Uijt de Haag, M., Sch. of Electr. Eng. & Comput. Sci., Ohio Univ., Athens, OH, USA.

### **Abstract**

Color image thresholding is a special case of color clustering which is commonly used for tasks such as object detection, region segmentation, enhancement, and target tracking. As compared to the three-dimensional (3-D) color clustering, thresholding is computationally more efficient for computer implementation and pipelined hardware realization. Traditionally, this method operates on a particular color component whose distribution possesses more prominent peaks than the other two color histograms. In this operation, it is expected that the histogram peaks represent meaningful object areas. However, the color component thresholding results are less reliable than those of 3-D clustering because the valuable information in the other two color components are ignored in the region acceptance process. To improve the performance of thresholding, we describe a method that thresholds an input image three times on three different color components independently. The best thresholds are selected by optimizing the within-group variance or directed divergence measure for red, green, and blue distributions separately. The resultant three binary images are combined by means of a predicate logic function that makes use of a 3-input, 1-output majority logic gate. This enables 1-D thresholding mechanism to incorporate the information on all the color components in region acceptance process.

# **Descriptors**

IMAGE-CLASSIFICATION; E IMAGE-COLOUR-ANALYSIS; E IMAGE-ENHANCEMENT;

IMAGE-SEGMENTATION; IMAGE-TEXTURE; MAJORITY-LOGIC; DBJECT-DETECTION;

E OPTIMISATION; E TARGET-TRACKING.

## **Classification codes**

<u>B6140C</u> Optical-information-image-and-video-signal-processing\*;

**B0260** Optimisation-techniques;

C1250 Pattern-recognition\*;

C1180 Optimisation-techniques.

### **Keywords**

**optimal-thresholding; color-image-thresholding; color-clustering;** object-detection; region-segmentation; image-enhancement; target-tracking; **3D-color-clustering;** pipelined-hardware; distribution-possesses; **color-histograms; color-component-thresholding;** input-image; directed-divergence-measure; **within-group-variance-** optimisation; binary-images; logic-function; majority-logic-gate; textured-image.

#### **Treatment codes**

T Theoretical-or-mathematical;

X Experimental.

### Language

English.

# **Publication type**

Conference-proceedings; Journal-paper.

### **Availability**

SICI: 0277-786X(1998)3304L.250:OTCI; 1-#.

CCCC: 0277-786X/98/\$10.00.

### **Publication year**

1998.

### **Publication date**

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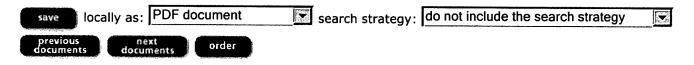
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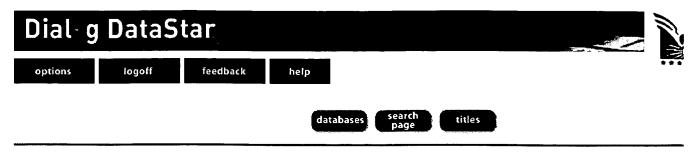
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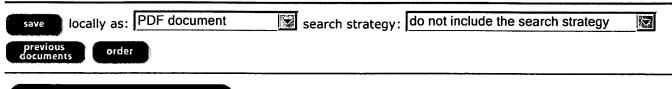
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### Accession number & update

0002094687 20051201.

**Title** 

High resolution image registration by thresholded difference.

### Conference information

Applications of Digital Image Processing IV, San Diego, CA, USA, 24-27 Aug. 1982.

### **Source**

Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1983, vol. 359, p. 178-85, 12 refs, CODEN: PSISDG, ISSN: 0277-786X, USA.

### Author(s)

Pinson-L-J.

### Author affiliation

Pinson, L.J., Dept. of Electrical Engng. & Computer Sci., Univ. of **Colorado**, **Colorado** Springs, CO, USA.

## **Abstract**

The accuracy of image registration methods is dependent on peak sharpness which is dependent on scene content. As a result of characterizing joint scene content in terms of the joint probability density function, a new registration metric is defined as the **thresholded** difference (TD) method. It produces a sharper correlation peak than either the direct cross-correlation or mean absolute difference methods. Analytical comparisons and simulations are presented which show the TD method to exhibit less dependence on scene content than other pixel-by-pixel registration metrics. The method is easily normalized by a simple rescaling of both images to the same range of gray levels. The **thresholded** difference registration metric is evaluated in terms of registering images which are incompatible due to additive noise, different spectral bands, temporal variations and scale differences. Simulation results show the TD method to be as good or better than other pixel-by-pixel correlation methods. An optimum **threshold** of half the image difference **standard deviation** at registration is indicated by simulation results. The TD method offers promise for enhanced registration accuracy for noncompatible images.

### **Descriptors**

PICTURE-PROCESSING.

### Classification codes

B6140C Optical-information-image-and-video-signal-processing\*.

### Keywords

image-registration; thresholded-difference; peak-sharpness; scene-content; joint-probability-

density-function; **thresholded-difference**; direct-cross-correlation; mean-absolute-difference; pixel-by-pixel-registration-metrics; rescaling; gray-levels; additive-noise; spectral-bands; temporal-variations; scale-differences; **standard-deviation**; noncompatible-images.

### **Treatment codes**

<u>T Theoretical-or-mathematical.</u>

# Language

English.

# **Publication type**

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## **Publication year**

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### **Publication date**

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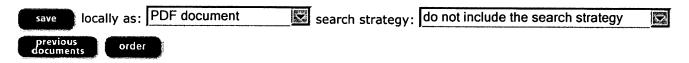
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